



NATURAL

Natural

INPL Utility

Version 5.1.1 for Windows

Version 3.1.6 for Mainframes

Version 5.1.1 for UNIX and OpenVMS

 **SOFTWARE AG**



This document applies to Natural Version 5.1.1 for Windows, Version 3.1.6 for Mainframes, Version 5.1.1 for UNIX and OpenVMS, and to all subsequent releases. Specifications contained herein are subject to change and these changes will be reported in subsequent release notes or new editions.

© June 2002, Software AG
All rights reserved

Software AG and/or all Software AG products are either trademarks or registered trademarks of Software AG. Other products and company names mentioned herein may be the trademarks of their respective owners.

Table of Contents

INPL Utility - Overview	1
INPL Utility - Overview	1
INPL - Introduction	2
INPL - Introduction	2
Restrictions	2
Special Case	2
Invoking INPL	2
Batch and Direct Command Mode	3
Options Available	4
INPL Report	5
Load Library Only	6
Load Library Only	6
Load DDMs Only	7
Load DDMs Only	7
Load Error Messages Only	8
Load Error Messages Only	8
Load All Objects	9
Load All Objects	9
Scan INPL File	10
Scan INPL File	10
Natural Security Recover	11
Natural Security Recover	11
Reset Environment	11
Remove Owners	11

INPL Utility - Overview

The INPL utility documentation comprises the following sections:

- Introduction to the INPL Utility
- Load Library Only
- Load DDMs Only
- Load Error Messages Only
- Load All Objects
(Load Library, DDMs and Error Messages)
- Scan INPL File
- Natural Security Recover

INPL - Introduction

The INPL (Initial Natural Program Load) utility is used to load Natural modules, DDMs or error messages from Software AG datasets (installation or update datasets) from Work File 1 into Natural system files. INPL is only used for initial Natural program loading or for implementing program corrections supplied by Software AG.

In addition, the INPL utility provides a scan function to check the contents of the datasets assigned to Work File 1 and a Natural Security Recover function which forces an initialization of the Natural Security environment.

When executed, the INPL utility will delete buffer pool entries of any cataloged object loaded to the Natural system file from the buffer pool used by the Natural session of the INPL utility.

If an error occurs during INPL execution, the INPL will be interrupted and terminate abnormally with Condition Code 40.

- Restrictions
 - Special Cases
 - Invoking INPL
 - Batch and Direct Command Mode
 - Options Available
 - INPL Report
-

Restrictions

Only datasets which are marked as "SAG system INPL dataset" are processed. To process datasets created with the NATUNLD utility, use the NATLOAD utility.

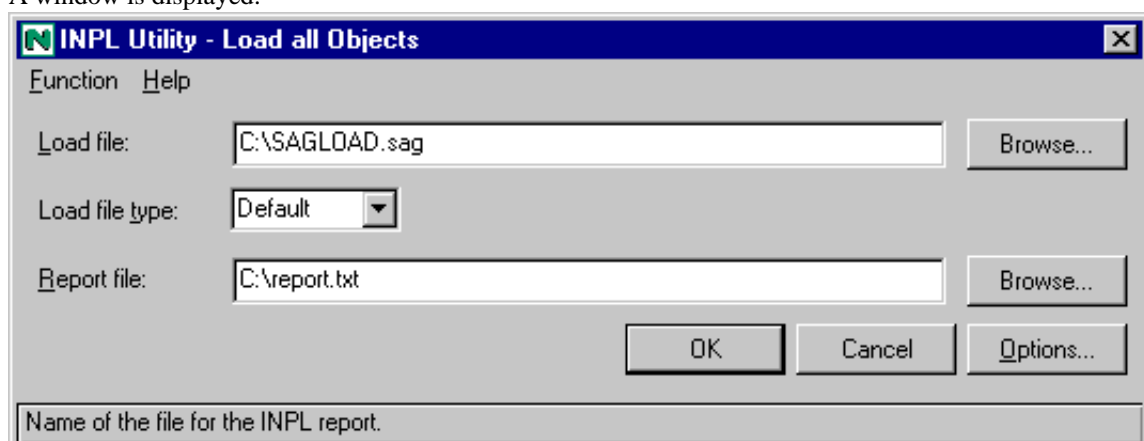
Special Case

When an INPL is to be performed in a Natural Security environment, the INPL command can be specified using the dynamic Natural profile parameter STACK.

Invoking INPL

▶ To invoke the INPL utility

1. In the Natural command line, enter the system command INPL and confirm your entry.
A window is displayed:



2. Select the file you want to load, the work file type and the file to which the INPL report is to be written. For details, refer to Options Available.

Choose OK to confirm your entries.

From the Function menu, the following functions are available:

- Load Library Only
- Load DDMs Only
- Error Messages Only
- Load All Objects
- Scan INPL File
- Natural Security Recover

For details on these functions, use the hyperlinks, or refer to the corresponding sections.

3. Choose the Option button and enter the parameters to be applied during execution of this function.

For details, refer to Options Available.

Batch and Direct Command Mode

When you run INPL in batch or when you use the direct-command mode, the input data used in connection with the INPL command corresponds to the codes and values that apply to the fields provided with a character user interface as is shown in the Natural INPL menu below. For example, assuming the session parameter ID is set to comma (,), the instruction for loading a specific DDM may read: INPL D,,,*ddm-name*.

```

11:04:48          ***** NATURAL INPL UTILITY *****          2001-11-09
User: SAG                                     Library: SYSTEM

      Code   Function

      L      Load Library Only
      D      Load DDMs Only
      E      Load Error Messages Only
      B      Load Library, DDMs and Error Messages
      S      Scan INPL File
      R      NATURAL SECURITY Recover
      ?      Help
      .      Exit

Code ..... B
Replace .... Y (Y/N/O)      Load Except . N (Y/N)
DDM Name ....
Library .....
Object Name .                Date ..... (YYYY-MM-DD)
Check Date .. N (Y/N)      Number ..... 0
File Type ... D (D/P)
Load File ... $NATWORK/SAGLOAD.sag
Report File . $HOME/report.txt

```

For a description of the fields, refer to Options Available.

Options Available

When you enter a function, you can specify the following parameters:

Parameter	Meaning
Library	<p>This parameter only applies to the functions Load Library Only, Load DDMs Only, Load Error Messages Only, Load All Objects and Scan INPL File. It indicates the name of the library to be loaded/scanned.</p> <p>If the value ends with an asterisk (*), each library whose name begins with the specified value will be loaded/scanned.</p> <p>The library name is mandatory if Object Name is specified.</p>
Object Name	<p>This parameter only applies to the functions Load Library Only, Load All Objects and Scan INPL File. It indicates the name of the programming object(s) to be loaded/scanned.</p> <p>If the value ends with an asterisk (*), each object whose name begins with the specified value will be loaded/scanned. If the field is left blank, all objects within the library specified under Library will be loaded/scanned.</p>
DDM Name	<p>This parameter only applies to the functions Load DDMs Only, Load All Objects and Scan INPL File. It indicates the name of the DDM(s) to be loaded/scanned.</p> <p>If the value entered ends with an asterisk (*), each DDM whose name begins with the specified value will be loaded.</p> <p>If only an asterisk is entered or this field is left blank, all DDMs will be loaded/scanned.</p>
Date (start)	<p>This parameter only applies to functions Load Library Only, Load DDMs Only, Load All Objects and Scan INPL File. It enables you to restrict loading/scanning to those programming objects which were saved/cataloged on or after a given date.</p> <p>The date is entered in the format YYYY-MM-DD.</p>

Parameter	Meaning
Number	This parameter enables you to restrict loading/scanning to a certain number of programming objects and/or DDMs. All objects which meet the selection criteria are counted. If the number of objects processed has reached the value of Number, processing is terminated with a corresponding message.
Replace	This parameter does not apply to the scan functions. Specifies whether objects/DDMs/error messages to be loaded are to replace any that already exist on the system file. With Option Y, the existing objects/DDMs/error messages are replaced. With Option N, the existing objects/DDMs/error messages are not replaced. Default for Replace is Y. See also the Check Date parameter if only older objects are to be replaced. In the function Natural Security Recover, you can enter the Option O in this field to reset the owner information of selected objects.
Check Date	This parameter only applies to the functions Load Library Only, Load DDMs Only and Load All Objects. It indicates whether programming objects or DDMs are to be replaced depending on their time stamp. If set to Y, only older objects are replaced (that is, objects which were saved or cataloged before the objects of the same names which are to be loaded). If set to N, all objects are replaced. This parameter has no effect if Replace is set to N. The default for Check Date is N.
Load Except	If Y is entered, the specified DDM name, Library and Object name selection are not loaded. This means, that all objects except the specified objects are to be loaded/scanned. Default for Load Except is N. Examples with Load Except = Y: Code = L Library = ABC: All libraries except the library ABC are loaded. Code = D DDM Name = XY*: All DDMs with a prefix other than XY are loaded. Code = B Library = AB* DDM Name = CD*: All libraries with a prefix other than AB and all DDMs with a prefix other than CD are loaded.
File Type	The type of work file: D = default (binary), P = portable. See also Work File Type in the section Define Work File in the Natural Statements documentation.
Load File	The name of the file to be loaded.
Report File	The name of the file to which the load report is to be written.

INPL Report

When the selected INPL function is complete, a corresponding INPL report is displayed in a list box (online mode).

Load Library Only

This function of the INPL utility is used to load Natural object modules and source programs into specified libraries in the Natural system file FNAT or FUSER.

To load libraries

1. From the Function menu, choose Load Library Only.
2. You can specify parameters to be valid during execution of this function:
 - Replace (Y/N)
 - Load Except (Y/N)
 - Library
 - Object Name
 - Date (start)(YYYY-MM-DD)
 - Check Date (Y/N)
 - Number

For detailed information on these parameters, use the hyperlinks, or refer to Options Available in the section Introduction.

3. Confirm your entry.

When the function is complete, a corresponding INPL Report (see the section Introduction) is output.

Load DDMs Only

This function of the INPL utility is used to load DDMs into the libraries indicated in the work file.

To load DDMs

1. From the Function menu, choose Load DDMs Only.
2. You can specify parameters to be valid during execution of this function:
 - Replace (Y/N)
 - Load Except (Y/N)
 - DDM Name
 - Number

For detailed information on these parameters, use the hyperlinks, or refer to Options Available in the section Introduction.

3. Confirm your entry.

When the function is complete, a corresponding INPL Report (see the section Introduction) is output.

Load Error Messages Only

This function of the INPL utility is used to load error messages into specified libraries in the Natural system file FNAT or FUSER.

To load error messages

1. From the Function menu, choose Load Error Messages Only.
2. You can specify parameters to be valid during execution of this function:
 - Replace (Y/N)
 - Library
 - Object Name

For detailed information on these parameters, use the hyperlinks, or refer to Options Available in the section Introduction.

3. Confirm your entry.

When the function is complete, a corresponding INPL Report (see the section Introduction) is output.

Load All Objects

(Load Library, DDMs and Error Messages)

This function of the INPL utility is used to load Natural object modules, source programs and error messages into specified libraries in the Natural system files FNAT and FUSER. DDMs are loaded into the libraries indicated in the work file.

To load libraries, DDMs and error messages

1. From the Function menu, choose Load All Objects.
2. You can specify parameters to be valid during execution of this function:
 - Replace (Y/N)
 - Load Except (Y/N)
 - DDM Name
 - Library
 - Object Name
 - Date (YYYY-MM-DD)
 - Check Date (Y/N)
 - Number

For detailed information on these parameters, use the hyperlinks, or refer to Options Available in the section Introduction.

3. Confirm your entry.

When the function is complete, a corresponding INPL Report (see the section Introduction) is output.

Scan INPL File

This function of the INPL utility is used to scan the contents of the dataset assigned to Work File 1.

To scan an INPL File

1. From the Function menu, choose Scan INPL File.
2. You can specify parameters to be valid during execution of this function:
 - Scan/Load Except (Y/N)
 - DDM Name
 - Library
 - Object Name
 - Date (YYYY-MM-DD)
 - Number

For detailed information on these parameters, use the hyperlinks, or refer to Options Available in the section Introduction.

3. Confirm your entry.

When the function is complete, a corresponding INPL Report (see the section Introduction) is output.

Natural Security Recover

This function of the INPL utility is used to force an initialization of the Natural Security environment. You can

- Reset the Environment or
 - Remove Owners
-

Reset Environment



Execution of this function will reset the user profile DBA and the library profile SYSSEC as well as the link between these two objects as they were after the initial installation; all other links to the library SYSSEC will be cancelled. Other Natural Security profiles and links will not be modified.

Contact Software AG Support for further information.



To reset the environment

- From the Function menu, choose Natural Security Recover.

Remove Owners



To remove owners

- From the Function menu, choose Natural Security Recover.
- Select the Options button.
- From the Options dialog, choose "Natural Security recover object" to reset the owner information of the objects selected.